

**REMARKS**

Applicants note with appreciation the allowance of this case in the Notice of Allowance mailed December 19, 2005. In the course of preparing the application for grant, applicants have reviewed the specification and claims and have found that the above errors require amendment. We have included a Replacement Sheet for the Abstract.

Accordingly, it is respectfully submitted that the present amendment be entered under the provision of 37 CFR 1.312 and such action is respectfully solicited.

The issue fee is being sent concurrently with this Amendment.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'R. Curcio', is written over a horizontal line.

Robert Curcio  
Reg. No. 44,638

DeLIO & PETERSON, LLC  
121 Whitney Avenue  
New Haven, CT 06510-1241  
(203) 787-0595

## SELF-LOCKING WIRE BOND STRUCTURE AND METHOD OF MAKING THE SAME

### ABSTRACT OF THE DISCLOSURE

A complimentary self-locking wire bond structure and technique is introduced, where the bonding force is focused at the tip of the bond wire and a barb-type construction is utilized to enhance the durability and reduce the insertion forces. The end of wire bond has an "arrowhead" or similar functioning fastener such that the force is focused to a point that pierces the bond pad in a local area. The bond pad may be self-healing, such that the bond pad is made to close over and seal or lock the barb into the underpad layer below the pad, while making electrical contact with the wire bond at the bond pad surface. The bond pad may have a cushioning layer or cavity below it to dampen the piercing force of the pointed barb. A thin metal pad may also be formed over the compliant underpad layer for force absorption.

REPLACEMENT SHEET